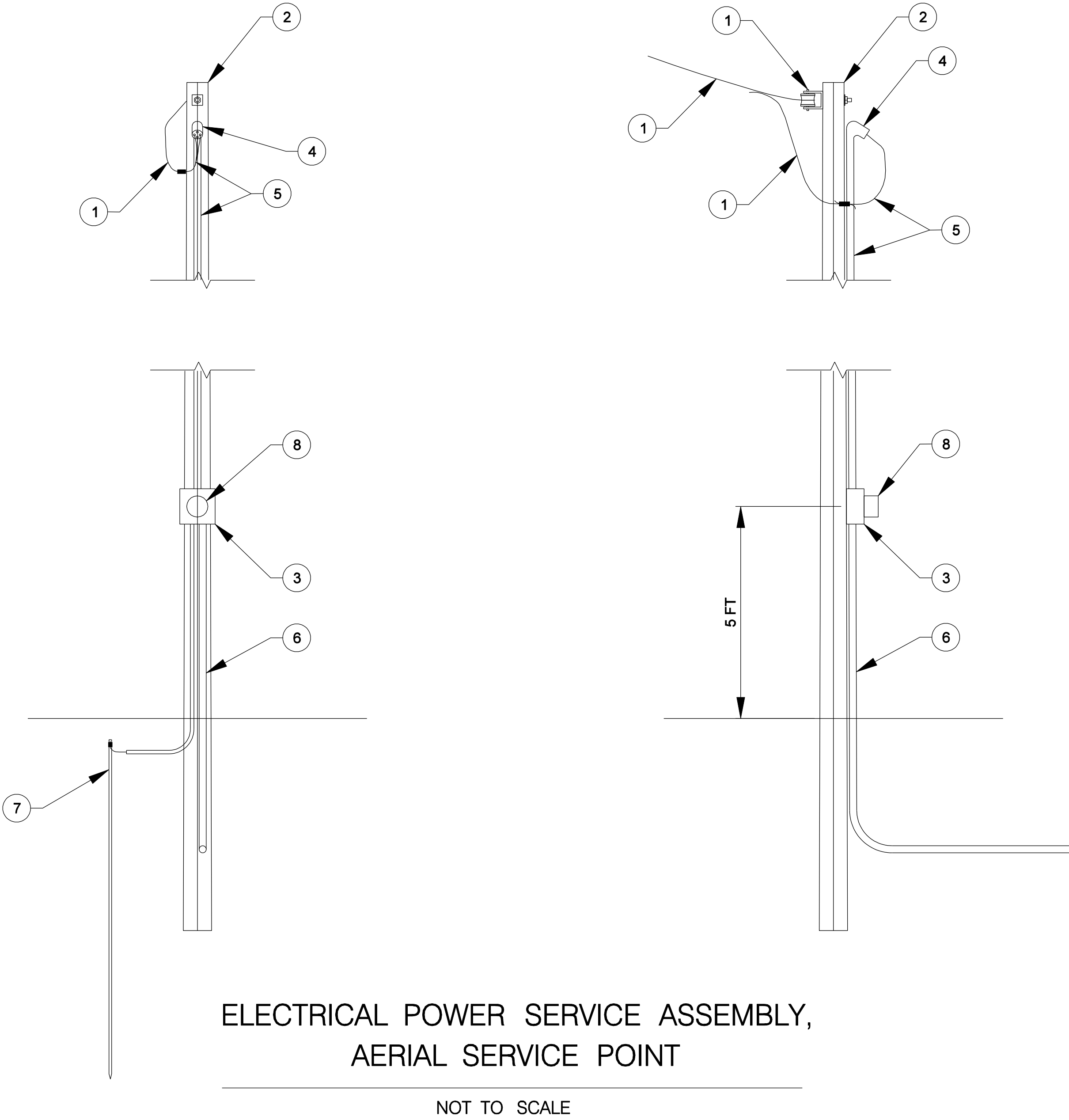


ELECTRICAL SERVICE GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL SERVICE EQUIPMENT AND MATERIALS FOR ROADWAY LIGHTING INSTALLATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING SECTIONS 920 (LIGHTING STANDARDS AND TOWERS), 921 (LUMINAIRES, 922 (ELECTRICAL WIRE AND CABLE), 923 (ELECTRICAL CONDUIT), AND 924 (MISCELLANEOUS ELECTRICAL MATERIALS), THE PLANS, AND THE GEORGIA SPECIFICATIONS. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND ANY REQUIREMENTS OF THE UTILITY POLE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH UTILITY POLE OWNERS AND THE ELECTRICAL SERVICE PROVIDER.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW GROUND ROD AND CONDUCTOR ASSEMBLIES AT ALL ELECTRICAL SERVICE ASSEMBLES FOR ROADWAY LIGHTING ON NEW AND EXISTING POLES. GROUNDING TO EXISTING GROUND RODS AT EXISTING POLES IS NOT PERMITTED EXCEPT WHEN REQUIRED BY THE POLE OWNER. WHEN TYING TO EXISTING GROUND RODS, THE NEW SERVICE DISCONNECT GROUND CONDUCTOR SHALL BE ATTACHED TO THE NEW GROUND ROD FIRST, THEN ROUTED TO THE EXISTING GROUND ROD. GROUND RODS SHALL BE MINIMUM 10 FEET IN LENGTH, RESISTANCE TO GROUND FROM THE GROUND CONDUCTOR CLAMP SHALL BE MEASURED WITH A THREE-POINT EARTH GROUND TEST MEGGER IN THE PRESENCE OF THE ENGINEER. MAXIMUM RESISTANCE TO GROUND AS TESTED SHALL BE 10 OHMS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL SERVICE ASSEMBLIES, INCLUDING ALL MATERIALS SUCH AS CONDUIT, SERVICE CONDUCTORS, DISCONNECT BREAKER, SURGE ARRESTOR, ETC.
4. ALL ABOVE GROUND ELECTRICAL SERVICE CONDUIT SHALL BE GALVANIZED RIGID STEEL. ALL ELECTRICAL SERVICE CONDUIT BODIES SUCH AS LBS AND COUPLINGS, SHALL BE GALVANIZED RIGID STEEL OR ALUMINUM. RISER CONDUIT BENDS, INCLUDING INTO THE BASE OF THE DISCONNECT HOUSING, SHALL BE MADE ONLY BY LB OR SIMILAR CONDUIT BODIES. STREET ELBOWS AND SWEEPS ARE NOT PERMITTED. ALL UNDERGROUND ELECTRICAL SERVICE CONDUIT SHALL BE SCHEDULE 40 PVC.

OVERHEAD SERVICE POLE INSTALLATION NOTES

1. THE ELECTRIC COMPANY SHALL INSTALL THE SERVICE DROP TO THE POLE AND MAKE THE CONNECTION BETWEEN THEIR SERVICE AND THE PIGTAIL PROVIDED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL INSTALL A 30'6 CCA-TREATED OR PENTA-TREATED WOOD POLE. THE POLE SHALL BE BURIED TO A DEPTH OF 5 FEET. THE POLE SHALL HAVE A #8 AWG BARE GROUND WIRE RUN FROM THE POLE BASE TO THE TOP.
3. THE CONTRACTOR SHALL INSTALL A METER BASE WHICH HE SHALL OBTAIN FROM THE ELECTRIC UTILITY.
4. THE CONTRACTOR SHALL INSTALL A WEATHERHEAD 12 INCHES FROM THE POLE TOP.
5. THE CONTRACTOR SHALL INSTALL A 1 - 12 INCH RGS CONDUIT FROM THE WEATHER-HEAD TO THE TOP OF THE METER BASE. THE CONTRACTOR SHALL INSTALL 3#2 AWG RHW COPPER CONDUCTORS FROM THE METER BASE, EXTENDING OUT OF THE WEATHERHEAD LEAVING 18 INCHES (MINIMUM) OF CONDUCTOR FOR THE PIGTAIL.
6. THE CONTRACTOR SHALL INSTALL A 1 - 12 INCH RGS CONDUIT FROM THE BOTTOM OF THE METER BASE TO THE BOTTOM OF THE SERVICE POLE. THE CONDUIT SHALL THEN TRANSITION TO A 1 - 12 INCH SCHEDULE 40 PVC CONDUIT WHICH SHALL THEN BE RUN UNDERGROUND TO THE TERMINATION POINT INSIDE THE 336 CABINET WHICH SHALL BE PROVIDED BY COLUMBIA COUNTY. THE CONTRACTOR SHALL INSTALL 3#2 AWG RHW COPPER CONDUCTORS INSIDE THE CONDUIT RUN TO THE SERVICE POINT, WHICH WILL BE IN THE BASE OF THE 336 CABINET.
7. THE CONTRACTOR SHALL INSTALL GROUND PROTECTION PER THE GROUNDING DETAIL. SEE DRAWING 25-017.
8. THE UTILITY COMPANY SHALL INSTALL THE METER AND ENERGIZE THE SYSTEM.



USE ON CONSTRUCTION



GRESHAM  
SMITH AND  
PARTNERS

GEORGIA  
DEPARTMENT  
OF  
TRANSPORTATION

NOT TO SCALE

REVISION DATES

07/08/2013		
08/07/2013		

STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE: ROADWAY DESIGN

OVERHEAD SERVICE POINT DETAIL

SR47 @ SR223 INTERSECTION  
IMPROVEMENT

DRAWING No.  
25-016